



## Mouse Anti-Rabbit RLA-DQ

Cat. No.	Form	Quantity
4080-01	Purified (UNLB) Antibody	0.5 mg
4080-02	Fluorescein (FITC) Conjugate	0.5 mg
4080-08	Biotin (BIOT) Conjugate	0.5 mg
4080-09	*R-phycoerythrin (R-PE) Conjugate	0.1 mg

### DESCRIPTION

<b>Clone</b>	2C4
<b>Ig Isotype</b>	Mouse (BALB/c) IgG <sub>2a</sub> K
<b>Immunogen</b>	Rabbit spleen cells
<b>Specificity</b>	Rabbit RLA-DQ $\alpha$ chain (Mr ~35 kDa)

MAb 2C4 reacts with RLA-DQ-transfected cells, but not with RLA-DR-transfected cells<sup>2</sup>. In normal adult rabbits, the antibody reacts with 30-60% of peripheral blood leukocytes.<sup>2,3</sup> It has also been reported that the antibody stains: lymphocytes and macrophages in the spleen; lymphocytes in the thymic medulla and some cells in the cortex; Kupffer cells in the liver; and synovial lining cells (i.e., infiltrating macrophages) in inflamed synovium.<sup>4</sup> DQ $\alpha$  transcripts have been detected in bone marrow and spleen and, to a lesser extent, in appendix, lymph nodes, and other organs.<sup>5</sup>

### RESEARCH APPLICATIONS

- Flow cytometry<sup>1,3</sup>
- Immunohistochemistry (acetone-fixed, frozen tissue sections)<sup>3,4</sup>
- Immunoprecipitation<sup>1</sup>

### CHARACTERIZATION

To insure acceptable performance, each batch of product is tested by flow cytometry to conform to the characteristics of a standard reference reagent.

### WORKING DILUTIONS

<b>Flow Cytometry:</b>	Fluorescein conjugate	$\leq 1 \mu\text{g}/10^6$ cells
	Biotin conjugate	$\leq 1 \mu\text{g}/10^6$ cells
	R-phycoerythrin conjugate	$\leq 0.2 \mu\text{g}/10^6$ cells

**Other Applications:** Since applications vary, investigators are advised to determine the optimum working dilution of the product that is appropriate for a specific need.

***For Research Use Only. Not for Diagnostic or Therapeutic Use.***

## HANDLING AND STORAGE

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of 100 mM borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The R-phycoerythrin (R-PE) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN<sub>3</sub> and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- Protect conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

## WARNING

Reagents contain sodium azide. Sodium azide is very toxic if ingested or inhaled. Avoid contact with skin, eyes, or clothing. Wear eye or face protection when handling. If skin or eye contact occurs, wash with copious amounts of water. If ingested or inhaled, contact a physician immediately. Sodium azide yields toxic hydrazoic acid under acidic conditions. Dilute azide-containing compounds in running water before discarding to avoid accumulation of potentially explosive deposits in lead or copper plumbing.

## REFERENCES

1. Lobel, S.A., and K.L. Knight. 1984. The role of rabbit Ia molecules in immune functions as determined with the use of an anti-Ia monoclonal antibody. *Immunology* 51:35-43.
2. Spieker-Polet, H., N. Sittisombut, P.-C. Yam, and K.L. Knight. 1990. Rabbit major histocompatibility complex IV. Expression of major histocompatibility complex class II genes. *J. Immunogenetics* 17:123-132.
3. Southern Biotechnology Associates, Inc. Unpublished observations.
4. Wilkinson, J. M., G. McDonald, S. Smith, J. Galea-Lauri, J. Lewthwaite, B. Henderson, and P.A. Revell. 1993. Immunohistochemical identification of leucocyte populations in normal tissue and inflamed synovium of the rabbit. *J. Pathol.* 170:315-320.
5. Kulaga, H., J.-A. Sogn, J.D. Weissman, P.N. Marche, C. LeGuern, E.O. Long, and T.J. Kindt. 1987. Expression patterns of MHC class II genes in rabbit tissues indicate close homology to human counterparts. *J. Immunol.* 139:587-592.

\*US Patent No. 4,520,110; European Patent No. 76,695; and Canadian Patent No. 1,179,942.  
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